

Technical Data Sheet

Qr Resin QR-3000-GF30

Polyethylene Terephthalate

LyondellBasell Industries

Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Dimensional Stability • Good Stiffness	• High Heat Resistance • High Strength	
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.50	1.50 g/cm ³	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	15500 psi	107 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	990000 psi	6830 MPa	ASTM D790
Flexural Strength (Break)	25000 psi	172 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft·lb/in	64 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	400 °F	204 °C	ASTM D648

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 8.0 hr	3.0 to 8.0 hr
Drying Time, Maximum	8.0 hr	8.0 hr
Rear Temperature	460 to 490 °F	238 to 254 °C
Middle Temperature	470 to 500 °F	243 to 260 °C
Front Temperature	480 to 510 °F	249 to 266 °C
Nozzle Temperature	470 to 500 °F	243 to 260 °C
Processing (Melt) Temp	480 to 510 °F	249 to 266 °C
Mold Temperature	150 to 190 °F	66 to 88 °C

Notes

These are typical property values not to be construed as specification limits.